# User instruction:

S1: To set up this project

1. Download nodejs: This project can be implemented by nodejs command prompt. The package can be download as below link:

<https://nodejs.org/en/>

1. Move the folder(m800\_assign) to the directory under Nodejs
2. Check all dependencies in package.json and install them

S2: Turn on the Google Calendar API

1. Use [this wizard](https://console.developers.google.com/start/api?id=calendar) to create or select a project in the Google Developers Console and automatically turn on the API. Click Continue, then Go to credentials
2. On the Add credentials to your project page, click the Cancel button
3. At the top of the page, select the OAuth consent screen tab. Select an Email address, enter a Product name if not already set, and click the Save button
4. Select the Credentials tab, click the Create credentials button and select OAuth client ID
5. Select the application type Other, enter the name "Google Calendar API Quickstart", and click the Create button
6. Click OK to dismiss the resulting dialog
7. Click the file\_download (Download JSON) button to the right of the client ID
8. Move this file to your working directory and rename it client\_secret.json

More detail please see: https://developers.google.com/google-apps/calendar/quickstart/nodejs

S3: To run the project:

1. Use Nodejs command prompt and traverse to the project directory
2. Open browser and type in localhost:3000. It will require at first time for an authentication session with current user.

Program explain

* Server.js is the entry file it includes all the nodejs and express function.
* Script.js demonstrate how the input data interact with server through ajax
* Index.html is the front-end page

First to click “Retrieve Data” button to get the data from google calendar account. It would show a list of events that you created online. The “Break item down” button can make item slide-down, showing more detail information corresponding to the selected event. The “Delete” and “Update” could not work probably at this moment, will do investigate it later.

To the upper side of page, you could see a form for creating new event. The creating event will pop up in the list below without refreshing page. “Synchronize Data with google calendar” can update the event you add from google calendar website without refreshing page. I demonstrate an example for inserting a new event to google calendar from this application by the button function” Add a static event to google calendar”. It would add an event that I constructed by json file to google calendar. After clicking it and synchronize it again, you would see the new event in the list.

Now the application is not able to just click the “Create new event” adding the event to google. But it could be solved soon, I did write some comment and critical thinking in the code.

# Routes

http://localhost:3000/obj -> Get all events in json file

<http://localhost:3000/sync> ->Synchronize with google calendar

<http://localhost:3000/addtoCalen> ->Add static event to google calendar

# Conclusion

I would not say this is an easy assignment, especially I just learned nodejs once I received it. It needs more time to finish all functionalities required. Please let me know if you need further update code. Shall you have any question, pleas fell free to contact me.

# Reference

<https://www.youtube.com/watch?v=G0BzzuXS8gI>

<https://developers.google.com/google-apps/calendar/quickstart/nodejs>

<https://www.w3schools.com/>